

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/CH 03/00028A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A63B29/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A63B A62B A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3 707 021 A (NORRMAN RUBEN HENRY) 26 December 1972 (1972-12-26) the whole document ---	1,7,8, 12,13
Y	DE 30 40 501 A (BENK CLAUS ING GRAD) 3 June 1982 (1982-06-03) page 12, last paragraph -page 13, paragraph 1; figure 6 ---	1,7,8, 12,13
A	EP 0 967 314 A (CONTI COMPLETT SPA) 29 December 1999 (1999-12-29) column 2, line 27 - line 31; figure 1 ---	1
A	EP 0 281 287 A (LASSILA & TIKANOJA OY) 7 September 1988 (1988-09-07) page 5, line 34 - line 39 figure 1 ---	1
		-/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search

4 June 2003

Date of mailing of the international search report

13/06/2003

## Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

## Authorized officer

Sedy, R

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/CH/83/00028

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 055 857 A (BRUCCIANI RICHARD LOUIS) 1 November 1977 (1977-11-01) claim 1; figures 4,5,7 -----	1

## INTERNATIONAL SEARCH REPORT

## Information on patent family members

International Application No

PCT/CH/03/00028

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 3707021	A	26-12-1972	SE AT BE CA CH DE DK FI FR GB JP NL NO	341456 B 306965 B 768573 A1 953882 A1 527763 A 2129837 A1 138635 B 48570 B 2099108 A5 1325207 A 51006433 B 7108240 A ,B, 139855 B		27-12-1971 10-05-1973 03-11-1971 03-09-1974 15-09-1972 30-12-1971 09-10-1978 31-07-1974 10-03-1972 01-08-1973 27-02-1976 21-12-1971 12-02-1979
DE 3040501	A	03-06-1982	DE	3040501 A1		03-06-1982
EP 0967314	A	29-12-1999	IT AU AU BR EP	MI981379 A1 723375 B2 9698498 A 9900049 A 0967314 A2		17-12-1999 24-08-2000 17-02-2000 22-02-2000 29-12-1999
EP 0281287	A	07-09-1988	FI FI EP JP NO	870757 A 880543 A 0281287 A1 63247293 A 880751 A		24-08-1988 24-08-1988 07-09-1988 13-10-1988 24-08-1988
US 4055857	A	01-11-1977	GB CH DE DK FR IE SE SE	1499110 A 586523 A5 7532122 U1 465975 A 2287865 A1 41903 B1 405790 B 7511441 A		25-01-1978 15-04-1977 15-04-1976 17-04-1976 14-05-1976 23-04-1980 08-01-1979 20-04-1976